

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 4F

2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 1

## Michigan

### Comparison of Racial and Ethnic Distribution by Local Agency

Children Aged < 5 Years <sup>(2)</sup>

Comparison of Racial and Ethnic Distribution								
Local Agency	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
01DHD#2	1,278	86.9	0.2	5.8	0.0	0.0	7.0	0.1
02LMAS	594	62.1	0.3	2.4	8.9	0.0	26.3	0.0
04DHD#4	1,295	87.6	0.3	3.6	0.1	0.2	8.3	0.0
05NWMCHA	1,769	85.9	0.5	5.3	0.5	0.0	7.9	0.0
06CMDHD	4,387	84.1	1.5	6.3	1.0	0.4	6.6	0.1
07West UP	1,135	84.1	0.9	3.9	1.2	0.7	9.3	0.0
08Barry	1,768	79.4	3.3	10.2	0.2	0.7	6.3	0.0
09Bay	2,158	67.2	2.5	17.1	0.0	0.2	12.8	0.1
10Gr Trav	1,461	73.6	0.3	12.8	1.4	0.5	11.4	0.0
11Berrien	2,573	44.9	33.9	10.4	0.2	1.4	9.0	0.3
12BHS	3,706	72.4	1.2	17.7	0.1	0.2	8.4	0.0
13Calhoun	3,483	50.6	19.8	9.9	0.2	4.8	14.6	0.1
14Leelanau	429	77.2	0.0	11.9	4.0	0.0	7.0	0.0
15Intercar	8,442	54.1	3.6	32.4	0.1	0.8	8.7	0.3
17Chippewa	626	41.4	0.2	5.1	20.9	0.3	32.1	0.0
19Mid-Mich	2,551	82.7	0.3	12.3	0.0	0.0	4.6	0.0
21Delta	926	73.4	0.1	5.2	2.8	0.1	18.4	0.0
22Iron	810	95.9	0.0	1.2	0.0	0.1	2.6	0.1
25Genesee	9,820	42.2	37.5	8.3	0.1	0.2	11.8	0.0
30HDI	2,656	28.7	29.3	22.3	0.1	0.4	19.3	0.0
32Huron	516	89.9	0.0	6.6	0.0	0.0	3.5	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

\* National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if <100 records are available for analysis after exclusions

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 4F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 2

### Michigan

### Comparison of Racial and Ethnic Distribution by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Racial and Ethnic Distribution								
Local Agency	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
33Ingham	7,627	31.9	26.0	20.8	0.1	4.9	16.2	0.0
35Keweenaw	104	8.7	0.0	6.7	46.2	0.0	38.5	0.0
37Ionia	1,119	77.9	0.0	14.2	0.0	0.0	7.9	0.0
38Jackson	3,799	58.9	13.4	10.3	0.1	0.3	17.0	0.0
39Kalamazo	4,479	38.5	34.8	12.1	0.0	0.5	13.0	1.1
41Kent	12,188	24.3	26.2	35.5	0.1	5.4	8.5	0.0
43DHD#10	6,650	74.4	1.2	15.6	0.1	0.1	8.4	0.1
44Lapeer	1,091	83.7	1.2	9.2	0.0	0.2	5.8	0.0
45Tuscola	1,194	88.4	1.2	5.9	0.0	0.1	4.4	0.0
46CAA	1,628	62.2	1.8	25.7	0.2	0.2	9.3	0.6
47Livingst	1,574	85.5	1.3	5.7	0.0	0.3	7.2	0.0
50Macomb	11,013	44.0	31.6	3.8	0.1	9.9	10.5	0.1
51DCS	1,637	58.9	10.3	16.4	0.2	1.2	13.0	0.0
52Marquett	932	83.2	0.4	4.9	0.9	0.1	10.3	0.2
56MMCAA	1,310	80.5	1.5	9.1	0.0	0.2	8.7	0.1
58Monroe	2,551	69.5	6.0	10.2	0.0	0.3	14.0	0.1
61Muskegon	4,142	47.9	24.1	14.1	0.2	0.1	13.4	0.1
63Oakland	11,639	43.1	31.1	14.9	0.1	2.4	8.4	0.0
73Saginaw	2,750	37.2	28.8	22.6	0.0	0.2	11.1	0.1
74St Clair	2,370	71.5	4.1	9.5	0.1	0.0	14.7	0.1
76Sanilac	683	91.5	0.1	4.8	0.0	0.0	3.5	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

\* National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if <100 records are available for analysis after exclusions

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 4F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 3

### Michigan

### Comparison of Racial and Ethnic Distribution by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Racial and Ethnic Distribution								
Local Agency	Number Included in Analysis (3,4)	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
78Shiawass	1,461	82.0	0.2	9.6	0.0	0.0	8.1	0.1
81Washtena	4,368	30.7	38.7	13.1	0.1	3.0	14.3	0.1
82Wayne	17,604	57.0	23.6	6.5	0.1	6.4	6.4	0.1
89Urban L	14,359	17.1	70.5	6.7	0.1	1.3	4.3	0.1
90Detroit	21,513	8.8	70.3	16.7	0.1	1.2	2.8	0.0
<b>Michigan</b>	<b>192,248</b>	<b>46.1</b>	<b>28.3</b>	<b>13.9</b>	<b>0.3</b>	<b>2.4</b>	<b>9.0</b>	<b>0.1</b>
<b>National (Prior Year)</b>	<b>609,559</b>	<b>37.8</b>	<b>27.2</b>	<b>24.6</b>	<b>0.9</b>	<b>3.0</b>	<b>6.4</b>	<b>0.1</b>

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

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# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 5F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 4

### Michigan

### Comparison of Age Distribution by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Age Distribution				
Local Agency	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
01DHD#2	1,278	32.6	18.6	48.7
02LMAS	594	30.5	17.0	52.5
04DHD#4	1,295	37.0	18.4	44.6
05NWMCHA	1,769	35.2	16.3	48.4
06CMDHD	4,387	31.1	19.2	49.7
07West UP	1,135	31.9	19.2	48.9
08Barry	1,768	32.6	17.1	50.2
09Bay	2,158	24.1	26.8	49.0
10Gr Trav	1,461	30.9	21.0	48.1
11Berrien	2,573	39.6	17.6	42.8
12BHS	3,706	34.2	18.0	47.8
13Calhoun	3,483	35.9	18.6	45.5
14Leelanau	429	32.9	22.4	44.8
15Intercar	8,442	32.4	20.3	47.3
17Chippewa	626	41.5	17.1	41.4
19Mid-Mich	2,551	32.8	20.3	46.8
21Delta	926	36.6	20.7	42.7
22Iron	810	33.0	15.3	51.7
25Genesee	9,820	32.0	18.6	49.4
30HDI	2,656	32.1	16.6	51.3
32Huron	516	36.8	16.7	46.5

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

\* National includes previous year's data for all participating States and ITOs.

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# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 5F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 5

### Michigan

### Comparison of Age Distribution by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Age Distribution				
Local Agency	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
33Ingham	7,627	30.5	18.3	51.1
35Keweenaw	104	33.7	17.3	49.0
37Ionia	1,119	32.8	19.0	48.2
38Jackson	3,799	31.0	19.5	49.5
39Kalamazo	4,479	34.7	18.2	47.1
41Kent	12,188	35.7	16.6	47.7
43DHD#10	6,650	27.8	20.2	51.9
44Lapeer	1,091	31.2	18.2	50.6
45Tuscola	1,194	32.0	15.7	52.3
46CAA	1,628	35.2	17.8	47.1
47Livingst	1,574	29.8	17.5	52.7
50Macomb	11,013	33.8	18.7	47.5
51DCS	1,637	29.0	23.6	47.4
52Marquett	932	25.8	24.9	49.4
56MMCAA	1,310	37.8	16.3	46.0
58Monroe	2,551	34.7	19.1	46.2
61Muskegon	4,142	33.7	19.4	46.9
63Oakland	11,639	35.5	18.5	45.9
73Saginaw	2,750	32.6	18.9	48.5
74St Clair	2,370	30.0	17.6	52.4
76Sanilac	683	36.5	18.6	44.9

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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**WIC PNSS & PedNSS**

Run Date: 5/25/2023

**Table 5F****2022 Pediatric Nutrition Surveillance <sup>(1)</sup>**

Page : 6

**Michigan****Comparison of Age Distribution by Local Agency****Children Aged < 5 Years <sup>(2)</sup>**

<b>Comparison of Age Distribution</b>				
<b>Local Agency</b>	<b>Number Included in Analysis (3,4)</b>	<b>0 - 11 Months %</b>	<b>12 - 23 Months %</b>	<b>24 - 59 Months %</b>
78Shiawass	1,461	31.2	18.9	49.9
81Washtena	4,368	31.6	19.2	49.3
82Wayne	17,604	28.8	19.9	51.3
89Urban L	14,359	35.7	17.8	46.5
90Detroit	21,513	34.9	17.7	47.5
<b>Michigan</b>	<b>192,248</b>	<b>33.0</b>	<b>18.7</b>	<b>48.3</b>
<b>National (Prior Year)</b>	<b>609,559</b>	<b>33.1</b>	<b>22.4</b>	<b>44.4</b>

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

\* National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if &lt; 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 6F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 7

### Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
01DHD#2	272	7.7 (6)	7.7 (36)	571	7.5 (14)	4.2 (9)	13.1 (37)	245	14.3 (15)	17.1 (18)	337	8.6 (11)
02LMAS	102	4.9 (2)	7.8 (37)	442	6.3 (8)	2.5 (3)	15.2 (40)	209	17.7 (34)	21.1 (32)	257	6.2 (6)
04DHD#4	307	8.1 (9)	8.5 (42)	709	12.4 (35)	8.3 (24)	15.5 (41)	269	14.1 (12)	17.1 (18)	264	10.2 (16)
05NWMCHA	306	8.8 (12)	8.2 (41)	1,628	6.9 (13)	5.6 (14)	12.8 (32)	799	16.8 (32)	12.9 (4)	1,032	13.4 (18)
06CMDHD	927	9.5 (15)	7.3 (33)	2,218	9.6 (27)	6.6 (18)	12.8 (32)	953	17.9 (36)	18.0 (20)	1,041	8.6 (11)
07West UP	225	6.7 (3)	8.0 (39)	157	5.1 (5)	3.2 (6)	11.5 (23)	70	*	*	80	*
08Barry	399	14.0 (40)	5.5 (12)	329	14.6 (42)	7.6 (22)	10.0 (15)	141	14.9 (18)	13.5 (5)	78	*
09Bay	426	13.4 (35)	6.1 (17)	570	9.5 (26)	6.5 (17)	12.1 (26)	121	16.5 (30)	18.2 (21)	87	*
10Gr Trav	312	11.9 (26)	7.4 (34)	588	4.9 (3)	9.4 (28)	7.5 (6)	188	15.4 (27)	13.8 (6)	156	16.7 (23)
11Berrien	626	13.1 (34)	6.1 (17)	1,053	11.0 (31)	3.8 (8)	11.8 (25)	438	18.5 (38)	15.5 (13)	673	7.4 (8)
12BHS	786	9.8 (18)	7.6 (35)	1,062	15.9 (44)	7.3 (20)	13.6 (39)	253	13.0 (7)	24.1 (35)	139	18.0 (25)
13Calhoun	802	10.7 (22)	6.9 (30)	1,133	10.2 (28)	10.3 (32)	9.6 (14)	211	15.2 (23)	21.3 (33)	92	*
14Leelanau	87	*	*	280	4.3 (2)	5.0 (11)	13.2 (38)	139	16.5 (30)	18.7 (27)	160	14.4 (20)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 6F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 8

### Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
15Intercar	1,838	11.3 (24)	6.3 (22)	7,408	6.7 (11)	3.3 (7)	12.2 (27)	3,439	15.0 (19)	13.8 (6)	4,870	15.6 (21)
17Chippewa	150	7.3 (4)	9.3 (44)	433	15.9 (44)	11.1 (35)	15.9 (42)	158	10.1 (2)	18.4 (24)	123	7.3 (7)
19Mid-Mich	533	12.2 (28)	4.5 (5)	431	10.2 (28)	7.4 (21)	9.5 (12)	113	14.2 (13)	18.6 (26)	112	3.6 (2)
21Delta	209	4.8 (1)	5.7 (14)	809	6.4 (9)	2.0 (2)	10.3 (17)	328	21.6 (40)	12.2 (3)	500	9.0 (14)
22Iron	164	7.3 (4)	5.5 (12)	186	11.3 (32)	8.6 (26)	12.9 (35)	55	*	*	1	*
25Genesee	2,147	13.7 (37)	6.5 (25)	1,699	13.3 (36)	11.5 (37)	13.0 (36)	367	14.2 (13)	25.6 (38)	65	*
30HDI	551	13.8 (39)	4.2 (3)	391	3.6 (1)	13.8 (44)	3.6 (1)	14	*	*	5	*
32Huron	116	8.6 (11)	11.2 (45)	389	5.4 (6)	2.6 (4)	11.1 (20)	169	21.3 (39)	11.2 (2)	246	4.9 (4)
33Ingham	1,582	11.9 (26)	6.3 (22)	1,992	7.7 (15)	11.3 (36)	9.0 (8)	467	15.0 (19)	15.0 (11)	85	*
35Keweenaw	19	*	*	10	*	*	*	0	*	*	0	*
37Ionia	237	9.7 (16)	5.1 (10)	695	5.9 (7)	5.5 (13)	10.6 (18)	283	15.9 (28)	14.8 (9)	424	3.5 (1)
38Jackson	760	13.6 (36)	6.7 (28)	1,132	7.9 (19)	11.8 (39)	9.2 (11)	262	18.3 (37)	22.5 (34)	161	8.1 (9)
39Kalamazo	970	12.5 (30)	5.7 (14)	1,060	5.0 (4)	12.7 (43)	6.0 (3)	101	17.8 (35)	18.8 (28)	7	*
41Kent	2,715	14.0 (40)	5.2 (11)	10,474	7.9 (19)	3.1 (5)	12.7 (31)	4,805	15.2 (23)	14.8 (9)	6,638	11.1 (17)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 6F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 9

### Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
43DHD#10	1,314	10.5 (21)	6.1 (17)	1,575	9.0 (25)	8.0 (23)	12.8 (32)	659	17.0 (33)	18.2 (21)	442	5.7 (5)
44Lapeer	211	11.8 (25)	8.5 (42)	105	6.7 (11)	12.4 (41)	6.7 (4)	14	*	*	4	*
45Tuscola	229	7.9 (7)	7.9 (38)	627	6.4 (9)	6.1 (15)	11.6 (24)	277	13.0 (7)	14.1 (8)	339	10.0 (15)
46CAA	341	7.9 (7)	6.5 (25)	619	15.0 (43)	12.1 (40)	16.3 (43)	223	15.2 (23)	26.0 (39)	8	*
47Livingst	288	16.3 (45)	4.5 (5)	373	8.6 (23)	5.4 (12)	5.1 (2)	141	16.3 (29)	4.3 (1)	199	4.5 (3)
50Macomb	2,412	15.3 (44)	4.2 (3)	833	13.9 (39)	10.6 (34)	11.3 (21)	194	14.4 (16)	16.5 (17)	1	*
51DCS	366	9.8 (18)	4.1 (2)	732	7.8 (17)	8.3 (24)	10.2 (16)	285	15.1 (22)	15.4 (12)	194	8.8 (13)
52Marquett	196	11.2 (23)	4.6 (7)	269	7.8 (17)	8.9 (27)	7.1 (5)	71	*	*	54	*
56MMCAA	272	8.5 (10)	8.1 (40)	508	8.5 (22)	6.7 (19)	11.4 (22)	173	12.7 (6)	15.6 (15)	94	*
58Monroe	575	8.9 (13)	7.1 (32)	762	11.8 (33)	12.6 (42)	12.6 (29)	166	13.3 (10)	26.5 (40)	56	*
61Muskegon	1,048	13.7 (37)	6.1 (17)	1,474	10.4 (30)	10.5 (33)	9.5 (12)	303	9.6 (1)	18.8 (28)	128	15.6 (21)
63Oakland	2,618	12.8 (33)	6.3 (22)	3,343	11.8 (33)	9.5 (29)	12.6 (29)	965	15.0 (19)	18.5 (25)	290	22.8 (26)
73Saginaw	534	12.2 (28)	6.2 (21)	707	7.9 (19)	11.6 (38)	9.1 (9)	102	10.8 (3)	19.6 (30)	27	*
74St Clair	517	9.9 (20)	6.8 (29)	1,331	7.7 (15)	4.4 (10)	12.2 (27)	556	13.1 (9)	18.2 (21)	712	14.3 (19)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 6F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 10

### Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
76Sanilac	155	9.7 (16)	6.5 (25)	242	13.6 (37)	1.7 (1)	17.4 (45)	103	11.7 (5)	15.5 (13)	171	8.2 (10)
78Shiawass	317	9.1 (14)	6.9 (30)	94	*	*	*	15	*	*	3	*
81Washtena	879	12.6 (32)	5.8 (16)	1,394	13.6 (37)	6.4 (16)	9.1 (9)	404	14.6 (17)	15.8 (16)	223	17.0 (24)
82Wayne	3,082	12.5 (30)	4.6 (7)	1,003	14.3 (40)	9.6 (30)	16.7 (44)	417	15.3 (26)	24.2 (36)	3	*
89Urban L	3,000	14.3 (42)	4.8 (9)	2,742	14.3 (40)	15.4 (45)	10.9 (19)	408	11.3 (4)	24.5 (37)	2	*
90Detroit	5,416	14.3 (42)	4.0 (1)	3,154	8.7 (24)	9.9 (31)	7.9 (7)	269	13.4 (11)	20.4 (31)	4	*
Michigan	41,355	12.5	5.7	59,763	9.3	7.2	11.5	20,353	15.2	16.5	20,598	11.8
National (Prior Year)	139,238	12.0	6.1	346,325	11.9	5.3	14.3	140,459	16.0	17.4	77,980	13.9

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 7F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 11

### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed  (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	%  (Rank)
01DHD#2	275	69.8 (29)	209	39.7 (15)	204	18.6 (20)	91	*	99	*	668	83.7 (25)
02LMAS	103	68.9 (30)	88	*	79	*	38	*	44	*	327	81.0 (30)
04DHD#4	309	80.6 (7)	209	38.8 (20)	210	16.7 (31)	101	40.6 (5)	124	17.7 (22)	619	84.7 (19)
05NWMCHA	361	82.5 (5)	287	51.9 (2)	253	26.1 (4)	163	52.8 (1)	204	31.4 (1)	922	83.4 (27)
06CMDHD	929	74.7 (19)	655	39.5 (17)	674	17.8 (23)	311	39.9 (7)	373	18.5 (17)	2,329	85.8 (13)
07West UP	227	83.3 (4)	176	55.1 (1)	168	30.4 (2)	96	*	122	20.5 (14)	594	89.6 (5)
08Barry	399	79.7 (9)	188	35.6 (28)	202	23.8 (7)	98	*	147	23.8 (5)	893	84.2 (21)
09Bay	430	74.0 (23)	258	30.2 (35)	414	16.9 (29)	96	*	165	9.7 (34)	1,132	86.0 (12)
10Gr Trav	316	85.4 (1)	201	47.8 (4)	261	30.7 (1)	103	38.8 (8)	126	17.5 (23)	723	84.8 (18)
11Berrien	627	74.0 (23)	452	37.6 (26)	346	18.2 (21)	232	35.3 (14)	256	21.5 (9)	1,149	72.1 (40)
12BHS	797	70.9 (28)	557	37.3 (27)	525	18.9 (19)	237	31.2 (21)	262	21.4 (10)	1,868	85.4 (16)
13Calhoun	810	66.9 (34)	557	38.2 (23)	593	17.0 (28)	175	41.1 (4)	204	23.5 (6)	1,669	94.6 (2)
14Leelanau	88	*	60	*	58	*	26	*	41	*	209	78.9 (33)

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(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 7F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 12

### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

Local Agency	Breastfeeding (6)						Exclusive Breastfeeding (7)		≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed  (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	%  (Rank)
15Inter-car	1,902	74.6 (21)	1,251	43.4 (10)	1,451	22.0 (10)	635	37.5 (11)	670	25.5 (3)	3,858	92.8 (3)
17Chippewa	152	65.1 (35)	99	*	80	*	34	*	37	*	280	88.9 (8)
19Mid-Mich	541	77.3 (15)	363	37.7 (25)	369	24.1 (6)	149	36.9 (12)	216	18.5 (17)	1,240	83.6 (26)
21Delta	210	74.3 (22)	169	39.1 (19)	189	21.2 (13)	89	*	100	16.0 (24)	426	80.0 (31)
22Iron	158	80.4 (8)	128	48.4 (3)	120	27.5 (3)	74	*	86	*	450	90.9 (4)
25Genesee	2,160	54.8 (43)	1,303	27.9 (37)	1,466	12.4 (40)	352	28.7 (24)	400	17.8 (21)	4,934	81.5 (29)
30HDI	550	62.0 (40)	304	24.7 (41)	326	12.0 (41)	145	33.8 (17)	145	14.5 (28)	1,436	76.0 (39)
32Huron	116	83.6 (3)	70	*	57	*	51	*	52	*	251	84.1 (23)
33Ingham	1,597	78.3 (13)	969	38.2 (23)	1,117	19.4 (17)	407	31.4 (20)	521	15.0 (26)	3,958	80.0 (31)
35Keweenaw	19	*	15	*	16	*	2	*	13	*	52	*
37Ionia	239	78.2 (14)	209	44.0 (6)	207	16.9 (29)	115	36.5 (13)	127	24.4 (4)	570	83.9 (24)
38Jackson	762	76.0 (18)	662	38.5 (22)	651	14.7 (35)	243	37.9 (10)	344	20.6 (11)	1,998	76.6 (38)
39Kalamazo	987	72.2 (26)	717	35.3 (29)	684	17.8 (23)	350	34.6 (16)	423	14.7 (27)	2,136	71.4 (41)

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 7F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 13

### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

Local Agency	Breastfeeding (6)						Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed  (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)	Number	% (Rank)
41Kent	2,756	68.1 (33)	1,985	40.6 (14)	1,753	20.4 (15)	878	27.4 (25)	968	18.4 (20)	4,995	76.9 (37)	12,109	1.1 (10)
43DHD#10	1,320	81.7 (6)	908	41.7 (11)	1,108	23.3 (8)	420	41.4 (3)	556	18.5 (17)	3,545	85.6 (14)	6,625	3.2 (35)
44Lapeer	214	79.0 (11)	195	43.6 (9)	193	17.1 (27)	95	*	125	14.4 (29)	570	88.8 (9)	1,090	1.0 (7)
45Tuscola	232	76.7 (17)	169	39.6 (16)	174	20.1 (16)	103	35.0 (15)	112	23.2 (7)	658	87.2 (11)	1,187	4.0 (42)
46CAA	341	78.9 (12)	233	38.6 (21)	235	21.7 (11)	103	42.7 (2)	137	27.0 (2)	814	78.5 (34)	1,626	1.3 (12)
47Livingst	291	62.5 (39)	198	43.9 (7)	215	21.4 (12)	82	*	80	*	865	82.2 (28)	1,553	1.9 (22)
50Macomb	2,425	65.0 (36)	1,894	31.6 (32)	1,933	12.9 (39)	794	26.4 (26)	884	13.9 (30)	5,502	85.6 (14)	10,968	0.8 (5)
51DCS	372	73.7 (25)	202	30.2 (35)	313	17.6 (25)	94	*	130	8.5 (35)	773	89.1 (7)	1,632	1.2 (11)
52Marquett	198	84.3 (2)	100	41.0 (12)	159	22.6 (9)	34	*	37	*	492	94.7 (1)	924	1.4 (15)
56MMCAA	274	79.2 (10)	206	40.8 (13)	144	17.4 (26)	107	31.8 (19)	141	20.6 (11)	629	89.2 (6)	1,292	0.6 (3)
58Monroe	581	51.5 (44)	396	31.1 (34)	383	19.3 (18)	158	38.0 (9)	168	23.2 (7)	1,255	84.3 (20)	2,543	1.7 (19)
61Muskegon	1,052	63.5 (38)	605	27.8 (38)	714	15.7 (32)	180	40.0 (6)	189	20.6 (11)	1,945	66.9 (44)	4,128	3.7 (38)
63Oakland	2,672	71.7 (27)	1,745	39.2 (18)	1,658	21.2 (13)	797	30.6 (22)	946	19.5 (16)	5,586	70.3 (42)	11,566	1.0 (7)

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 7F

### 2022 Pediatric Nutrition Surveillance <sup>(1)</sup>

Page : 14

### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed  (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	%  (Rank)
73Saginaw	541	68.2 (31)	418	27.3 (39)	424	13.0 (38)	176	21.6 (27)	229	13.1 (31)	1,379	78.2 (35)
74St Clair	517	74.7 (19)	358	31.3 (33)	390	15.6 (33)	187	33.7 (18)	200	16.0 (24)	1,292	78.0 (36)
76Sanilac	161	64.6 (37)	122	45.9 (5)	102	13.7 (36)	49	*	66	*	313	69.0 (43)
78Shiawass	319	58.0 (42)	211	32.7 (31)	254	18.1 (22)	67	*	76	*	770	85.2 (17)
81Washtena	902	77.1 (16)	604	43.7 (8)	647	25.3 (5)	312	30.1 (23)	305	20.3 (15)	2,246	88.3 (10)
82Wayne	3,199	68.2 (31)	2,422	33.4 (30)	2,685	15.5 (34)	1,225	14.9 (30)	1,429	7.8 (36)	9,540	84.2 (21)
89Urban L	3,010	58.5 (41)	2,149	24.4 (42)	2,054	11.0 (42)	728	20.9 (28)	949	11.1 (32)	6,887	59.2 (46)
90Detroit	5,488	46.8 (45)	2,978	26.6 (40)	3,114	13.3 (37)	1,031	16.8 (29)	1,177	10.0 (33)	10,481	61.7 (45)
<b>Michigan</b>	<b>41,954</b>	<b>66.7</b>	<b>28,260</b>	<b>35.0</b>	<b>29,379</b>	<b>17.4</b>	<b>12,038</b>	<b>30.1</b>	<b>14,206</b>	<b>16.9</b>	<b>95,257</b>	<b>78.1</b>
<b>National (Prior Year)</b>	<b>140,405</b>	<b>65.7</b>	<b>68,423</b>	<b>27.2</b>	<b>80,284</b>	<b>14.9</b>	<b>53,747</b>	<b>14.8</b>	<b>61,008</b>	<b>6.5</b>	<b>184,634</b>	<b>77.8</b>

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 6F

2020 - 2022 Pediatric Nutrition Surveillance (1)

Page : 15

## Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

### Comparison of Growth and Anemia Indicators (3,4)

Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
01DHD#2	866	8.4 (11)	8.2 (36)	1,265	8.9 (27)	4.2 (10)	12.3 (37)	533	17.4 (40)	16.1 (24)	619	9.9 (17)
02LMAS	353	9.6 (17)	9.1 (42)	928	7.9 (16)	3.8 (6)	13.7 (43)	398	17.1 (36)	19.6 (44)	412	4.9 (6)
04DHD#4	930	9.5 (16)	8.6 (39)	1,784	10.0 (37)	8.7 (38)	13.3 (42)	630	14.0 (5)	17.8 (35)	480	13.5 (28)
05NWMCHA	1,060	9.2 (14)	7.6 (27)	4,257	7.0 (14)	5.9 (16)	11.7 (33)	1,943	17.8 (41)	14.2 (7)	2,441	10.9 (20)
06CMDHD	2,737	9.6 (17)	8.0 (32)	5,572	9.9 (35)	6.0 (18)	12.2 (34)	2,216	16.6 (32)	18.1 (37)	2,037	8.7 (11)
07West UP	702	7.5 (3)	8.8 (40)	615	6.0 (7)	3.3 (3)	9.9 (16)	306	17.3 (38)	11.1 (2)	340	3.8 (3)
08Barry	1,149	12.3 (34)	6.8 (21)	1,901	8.0 (19)	5.6 (14)	10.3 (18)	722	16.1 (29)	15.8 (21)	416	7.9 (10)
09Bay	1,350	12.4 (35)	8.0 (32)	1,894	8.0 (19)	4.1 (9)	11.3 (29)	573	18.2 (43)	14.7 (16)	515	9.7 (15)
10Gr Trav	994	11.1 (26)	9.9 (44)	1,731	4.0 (1)	9.6 (42)	8.0 (4)	559	17.9 (42)	13.1 (6)	411	20.0 (41)
11Berrien	1,992	11.0 (25)	5.6 (11)	3,945	8.2 (21)	4.6 (11)	10.4 (19)	1,520	17.3 (38)	14.3 (8)	2,059	7.8 (9)
12BHS	2,411	8.8 (12)	8.3 (37)	3,502	12.2 (43)	6.0 (18)	11.3 (29)	1,066	14.5 (9)	16.6 (29)	890	14.8 (31)
13Calhoun	2,440	11.1 (26)	6.6 (19)	4,040	8.2 (21)	9.2 (40)	9.8 (13)	916	15.3 (22)	18.9 (41)	653	17.3 (35)
14Leelanau	283	12.7 (36)	9.5 (43)	678	5.3 (4)	7.1 (28)	12.8 (41)	291	17.2 (37)	19.6 (44)	323	12.7 (26)
15Intercar	5,424	10.6 (24)	7.6 (27)	18,104	6.1 (9)	3.9 (7)	11.6 (32)	7,949	14.9 (16)	14.6 (12)	10,738	17.5 (36)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 6F

2020 - 2022 Pediatric Nutrition Surveillance (1)

Page : 16

## Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

### Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
17Chippewa	454	6.8 (2)	11.5 (46)	925	13.6 (46)	8.3 (36)	17.3 (46)	366	12.6 (1)	19.4 (43)	224	8.9 (12)
19Mid-Mich	1,687	11.7 (30)	6.6 (19)	2,407	8.7 (25)	6.9 (26)	10.8 (22)	768	14.3 (8)	18.0 (36)	676	1.3 (1)
21Delta	699	6.2 (1)	7.3 (24)	1,960	8.7 (25)	2.3 (2)	12.6 (40)	761	20.0 (45)	15.0 (17)	1,092	9.2 (14)
22Iron	486	8.0 (6)	7.4 (26)	637	9.6 (34)	6.4 (23)	11.0 (27)	228	14.0 (5)	19.3 (42)	171	12.9 (27)
25Genesee	6,500	13.2 (38)	5.1 (5)	6,683	11.0 (40)	5.9 (16)	12.4 (38)	2,198	14.7 (12)	16.9 (30)	1,845	18.8 (38)
30HDI	1,580	13.9 (43)	4.5 (3)	2,006	5.2 (3)	9.9 (43)	6.4 (1)	368	14.1 (7)	12.0 (4)	347	6.6 (8)
32Huron	371	7.8 (4)	10.0 (45)	877	6.7 (12)	3.3 (3)	10.0 (17)	340	19.7 (44)	11.2 (3)	478	5.0 (7)
33Ingham	4,584	11.5 (28)	5.9 (12)	7,005	7.9 (16)	9.3 (41)	9.3 (11)	1,858	15.1 (19)	16.4 (26)	1,062	10.8 (19)
35Keweenaw	68	*	*	81	*	*	*	24	*	*	16	*
37Ionia	762	8.0 (6)	8.5 (38)	1,803	5.0 (2)	6.9 (26)	9.5 (12)	626	15.8 (28)	14.5 (11)	851	3.6 (2)
38Jackson	2,497	11.6 (29)	7.6 (27)	4,634	5.8 (6)	12.3 (46)	9.1 (8)	1,276	17.0 (35)	18.5 (38)	1,087	12.4 (25)
39Kalamazo	3,064	11.9 (31)	6.0 (15)	4,575	5.6 (5)	9.1 (39)	7.0 (3)	937	16.9 (34)	14.4 (9)	922	23.5 (44)
41Kent	8,068	14.1 (44)	5.5 (7)	22,701	9.0 (29)	3.3 (3)	12.4 (38)	10,091	15.1 (19)	15.0 (17)	13,052	12.1 (24)
43DHD#10	3,993	10.0 (21)	7.7 (30)	5,505	9.0 (29)	5.4 (13)	12.2 (34)	2,240	16.8 (33)	17.1 (31)	1,717	9.8 (16)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 6F

2020 - 2022 Pediatric Nutrition Surveillance (1)

Page : 17

## Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

### Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
44Lapeer	701	10.4 (23)	8.0 (32)	779	6.0 (7)	6.0 (18)	9.1 (8)	233	16.3 (30)	15.9 (22)	248	19.0 (40)
45Tuscola	695	7.9 (5)	8.1 (35)	1,785	7.2 (15)	6.3 (21)	11.4 (31)	725	15.6 (26)	15.9 (22)	678	10.9 (20)
46CAA	1,065	8.1 (8)	7.2 (22)	1,387	12.7 (44)	7.7 (32)	13.7 (43)	535	13.6 (4)	20.2 (46)	270	30.4 (45)
47Livingst	902	13.5 (42)	6.4 (16)	926	7.9 (16)	4.0 (8)	6.8 (2)	410	15.1 (19)	8.5 (1)	481	4.4 (5)
50Macomb	7,069	13.4 (40)	4.8 (4)	5,355	9.4 (32)	6.3 (21)	10.8 (22)	1,839	14.7 (12)	13.0 (5)	1,334	11.0 (22)
51DCS	1,318	9.9 (20)	5.5 (7)	2,380	6.7 (12)	7.4 (30)	9.8 (13)	815	15.0 (18)	15.0 (17)	656	10.7 (18)
52Marquett	605	8.1 (8)	7.3 (24)	1,203	8.6 (24)	6.7 (24)	9.1 (8)	383	16.4 (31)	14.4 (9)	208	4.3 (4)
56MMCAA	834	9.0 (13)	8.9 (41)	1,583	9.9 (35)	5.0 (12)	11.2 (28)	544	14.9 (16)	16.4 (26)	355	15.8 (34)
58Monroe	1,684	9.6 (17)	7.2 (22)	2,348	11.1 (41)	9.9 (43)	10.9 (24)	589	15.4 (23)	18.8 (40)	436	13.5 (28)
61Muskegon	3,194	12.2 (33)	5.9 (12)	4,981	9.0 (29)	7.9 (33)	10.7 (20)	1,232	14.5 (9)	16.5 (28)	890	15.3 (33)
63Oakland	7,765	12.8 (37)	5.9 (12)	11,341	10.5 (38)	7.9 (33)	10.9 (24)	3,625	15.5 (24)	14.6 (12)	2,165	21.9 (43)
73Saginaw	1,753	13.2 (38)	5.5 (7)	2,863	6.6 (10)	8.4 (37)	9.0 (7)	635	15.6 (26)	16.2 (25)	544	17.5 (36)
74St Clair	1,652	10.0 (21)	6.5 (17)	3,508	8.5 (23)	7.2 (29)	10.7 (20)	1,195	14.6 (11)	17.2 (33)	1,257	13.7 (30)
76Sanilac	447	8.3 (10)	6.5 (17)	568	13.4 (45)	2.1 (1)	16.0 (45)	237	13.1 (3)	18.6 (39)	328	11.6 (23)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 6F

2020 - 2022 Pediatric Nutrition Surveillance (1)

Page : 18

## Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

### Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
78Shiawass	920	9.3 (15)	7.7 (30)	890	6.6 (10)	8.1 (35)	8.9 (6)	287	20.9 (46)	17.1 (31)	268	9.0 (13)
81Washtena	2,711	13.4 (40)	5.5 (7)	3,978	10.5 (38)	6.8 (25)	9.8 (13)	1,325	15.5 (24)	14.6 (12)	937	21.2 (42)
82Wayne	10,540	11.9 (31)	5.1 (5)	9,350	9.5 (33)	5.7 (15)	12.2 (34)	3,831	14.7 (12)	15.6 (20)	2,902	15.2 (32)
89Urban L	8,853	15.1 (46)	4.3 (2)	11,270	11.8 (42)	11.5 (45)	10.9 (24)	2,926	12.9 (2)	17.7 (34)	2,422	30.9 (46)
90Detroit	16,281	15.0 (45)	4.1 (1)	15,432	8.9 (27)	7.6 (31)	8.6 (5)	3,593	14.8 (15)	14.6 (12)	3,144	18.9 (39)
Michigan	126,528	12.3	5.9	194,007	8.7	6.6	10.9	66,687	15.4	17.6	65,421	14.3

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 7F

2020 - 2022 Pediatric Nutrition Surveillance (1)

Page : 19

### Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)						Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months	Number	% Breastfed At Least 3 Months	Number	% Breastfed At Least 6 Months	Number	%	Number	%
	(Rank)		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)	
01DHD#2	869	64.7 (35)	530	30.2 (34)	607	14.5 (34)	287	29.6 (13)	372	14.8 (16)	1,935	84.5 (22)	3,840	3.7 (47)
02LMAS	354	73.7 (19)	279	36.2 (15)	283	19.1 (14)	155	26.5 (21)	203	15.3 (13)	1,020	81.1 (32)	1,878	3.4 (39)
04DHD#4	934	74.7 (15)	646	36.2 (15)	697	13.1 (36)	383	29.8 (12)	497	13.7 (23)	1,951	86.9 (15)	3,980	3.4 (39)
05NWMCHA	1,164	80.5 (6)	834	45.4 (3)	794	22.4 (5)	474	42.4 (3)	686	22.9 (1)	2,865	86.6 (16)	5,642	3.5 (43)
06CMDHD	2,741	70.3 (25)	1,893	36.1 (19)	2,099	15.9 (26)	1,058	28.8 (17)	1,381	14.2 (21)	6,663	86.4 (18)	12,776	3.6 (44)
07West UP	706	82.4 (2)	565	50.1 (1)	560	25.2 (3)	356	28.9 (16)	458	15.3 (13)	1,769	88.7 (7)	3,420	1.9 (21)
08Barry	1,170	80.8 (4)	581	31.0 (32)	736	19.2 (13)	328	29.0 (15)	495	14.3 (20)	2,631	83.8 (24)	5,282	1.7 (19)
09Bay	1,360	67.7 (31)	740	29.5 (35)	1,160	15.4 (30)	369	21.7 (33)	609	6.4 (42)	3,186	86.6 (16)	6,288	2.0 (22)
10Gr Trav	1,004	84.0 (1)	592	46.5 (2)	729	27.0 (2)	334	37.7 (4)	449	15.4 (12)	2,110	87.3 (12)	4,296	1.3 (15)
11Berrien	2,001	70.2 (26)	1,391	34.7 (22)	1,132	15.9 (26)	880	24.4 (25)	1,062	12.7 (27)	3,559	73.9 (42)	7,978	3.4 (39)
12BHS	2,443	74.5 (16)	1,553	34.0 (24)	1,693	16.9 (20)	807	24.2 (26)	1,056	14.9 (15)	5,531	83.9 (23)	11,200	1.8 (20)
13Calhoun	2,469	67.8 (30)	1,521	31.8 (31)	1,793	15.0 (32)	676	22.8 (30)	900	11.3 (29)	4,905	94.2 (2)	10,210	0.7 (2)
14Leelanau	285	81.1 (3)	212	45.3 (4)	182	28.6 (1)	112	37.5 (5)	177	19.8 (5)	721	77.3 (38)	1,428	3.6 (44)

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 7F

2020 - 2022 Pediatric Nutrition Surveillance (1)

Page : 20

## Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)
15Intercar	5,796	73.2 (20)	3,608	37.7 (11)	4,487	17.7 (17)	2,121	28.7 (18)	2,587	15.7 (10)	12,327	92.2 (3)
17Chippewa	457	65.6 (34)	276	36.2 (15)	294	25.2 (3)	138	32.6 (9)	193	22.3 (3)	981	89.2 (6)
19Mid-Mich	1,703	79.8 (8)	1,018	37.1 (12)	1,086	21.0 (9)	478	31.6 (10)	747	14.7 (19)	3,708	84.6 (21)
21Delta	701	71.0 (22)	517	39.7 (7)	552	16.1 (25)	314	23.9 (28)	368	13.6 (25)	1,310	82.8 (26)
22Iron	481	73.8 (18)	361	43.8 (5)	390	20.0 (11)	221	44.8 (2)	286	22.7 (2)	1,331	89.7 (5)
25Genesee	6,527	53.3 (45)	3,885	23.6 (43)	4,377	11.7 (40)	1,730	16.5 (41)	2,380	8.2 (40)	14,009	81.2 (31)
30HDI	1,581	57.5 (42)	913	19.7 (46)	958	10.8 (44)	540	17.0 (40)	720	6.0 (43)	3,977	74.4 (41)
32Huron	371	78.2 (10)	216	34.7 (22)	219	15.5 (29)	150	24.0 (27)	181	9.4 (36)	773	83.3 (25)
33Ingham	4,627	74.4 (17)	2,639	33.7 (26)	3,286	17.8 (16)	1,350	22.4 (32)	1,908	11.2 (31)	10,447	85.5 (20)
35Keweenaw	70	*	43	*	46	*	19	*	37	*	172	87.2 (13)
37Ionia	767	80.4 (7)	541	38.8 (9)	650	17.2 (18)	325	33.2 (8)	416	18.5 (6)	1,659	86.3 (19)
38Jackson	2,511	69.3 (28)	2,210	36.2 (15)	2,069	13.1 (36)	1,114	25.1 (24)	1,601	13.7 (23)	6,260	75.7 (39)
39Kalamazo	3,123	67.6 (32)	2,075	32.5 (30)	2,094	15.3 (31)	1,232	27.4 (19)	1,607	10.5 (32)	6,454	72.4 (44)
41Kent	8,212	68.9 (29)	5,021	33.5 (28)	5,482	16.6 (22)	2,616	21.4 (36)	3,422	11.5 (28)	14,490	81.4 (30)

(1) Reporting period is January 1 through December 31.

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(5) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 7F

2020 - 2022 Pediatric Nutrition Surveillance (1)

Page : 21

## Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)
43DHD#10	4,019	77.4 (11)	2,669	38.4 (10)	3,460	20.0 (11)	1,505	33.6 (6)	2,043	14.1 (22)	9,924	87.8 (11)
44Lapeer	706	78.3 (9)	582	39.2 (8)	648	18.5 (15)	337	23.7 (29)	461	9.3 (37)	1,764	88.0 (10)
45Tuscola	699	75.7 (12)	476	35.3 (20)	553	16.6 (22)	280	22.5 (31)	379	11.3 (29)	1,883	88.3 (8)
46CAA	1,066	70.7 (24)	701	34.0 (24)	683	20.6 (10)	416	26.9 (20)	559	15.7 (10)	2,189	77.8 (36)
47Livingst	906	69.9 (27)	583	37.0 (13)	662	17.2 (18)	323	29.4 (14)	400	14.8 (16)	2,486	82.8 (26)
50Macomb	7,113	59.7 (40)	5,239	27.7 (38)	5,702	11.5 (42)	3,073	16.0 (42)	3,760	8.7 (38)	15,180	82.3 (28)
51DCS	1,328	71.2 (21)	680	27.2 (39)	1,020	16.6 (22)	354	20.9 (39)	536	9.7 (35)	2,547	87.0 (14)
52Marquett	610	80.7 (5)	323	35.3 (20)	501	21.8 (7)	123	46.3 (1)	181	16.6 (7)	1,519	96.7 (1)
56MMCAA	837	75.7 (12)	546	36.6 (14)	467	21.4 (8)	330	30.6 (11)	453	16.1 (9)	1,855	88.1 (9)
58Monroe	1,697	59.1 (41)	1,227	28.3 (36)	1,206	13.8 (35)	697	21.1 (38)	902	8.6 (39)	3,443	80.4 (34)
61Muskegon	3,206	60.4 (38)	1,817	24.9 (41)	2,357	12.5 (38)	984	21.6 (34)	1,163	9.8 (34)	6,136	68.0 (45)
63Oakland	7,922	70.9 (23)	5,118	33.6 (27)	4,880	16.8 (21)	3,205	21.4 (36)	3,847	12.9 (26)	16,331	74.5 (40)
73Saginaw	1,770	64.1 (36)	1,198	24.8 (42)	1,162	11.0 (43)	791	13.3 (43)	899	8.0 (41)	4,004	78.5 (35)
74St Clair	1,655	65.7 (33)	1,083	25.9 (40)	1,410	12.4 (39)	616	21.6 (34)	854	10.5 (32)	3,628	77.7 (37)

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 5/25/2023

## Table 7F

2020 - 2022 Pediatric Nutrition Surveillance (1)

Page : 22

### Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)
76Sanilac	467	55.7 (43)	316	33.5 (28)	317	14.8 (33)	170	33.5 (7)	239	22.2 (4)	933	73.1 (43)
78Shiawass	928	60.6 (37)	593	30.7 (33)	789	15.6 (28)	306	25.8 (23)	405	14.8 (16)	2,157	81.8 (29)
81Washtena	2,762	75.2 (14)	1,827	40.9 (6)	1,976	22.0 (6)	1,145	25.9 (22)	1,303	16.6 (7)	6,376	89.9 (4)
82Wayne	10,950	60.0 (39)	8,691	28.0 (37)	9,069	11.6 (41)	5,564	10.9 (45)	6,850	6.0 (43)	28,430	81.1 (32)
89Urban L	8,957	55.0 (44)	5,870	21.3 (45)	5,659	8.7 (46)	3,036	11.0 (44)	4,069	5.8 (45)	19,443	56.7 (47)
90Detroit	16,533	48.0 (46)	8,789	22.3 (44)	9,738	10.0 (45)	5,079	9.1 (46)	6,205	4.9 (46)	30,626	61.9 (46)
<b>Michigan</b>	<b>128,634</b>	<b>64.4</b>	<b>83,013</b>	<b>30.5</b>	<b>90,750</b>	<b>14.6</b>	<b>46,915</b>	<b>20.1</b>	<b>60,313</b>	<b>10.5</b>	<b>277,687</b>	<b>78.3</b>
											<b>571,496</b>	<b>1.8</b>

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